

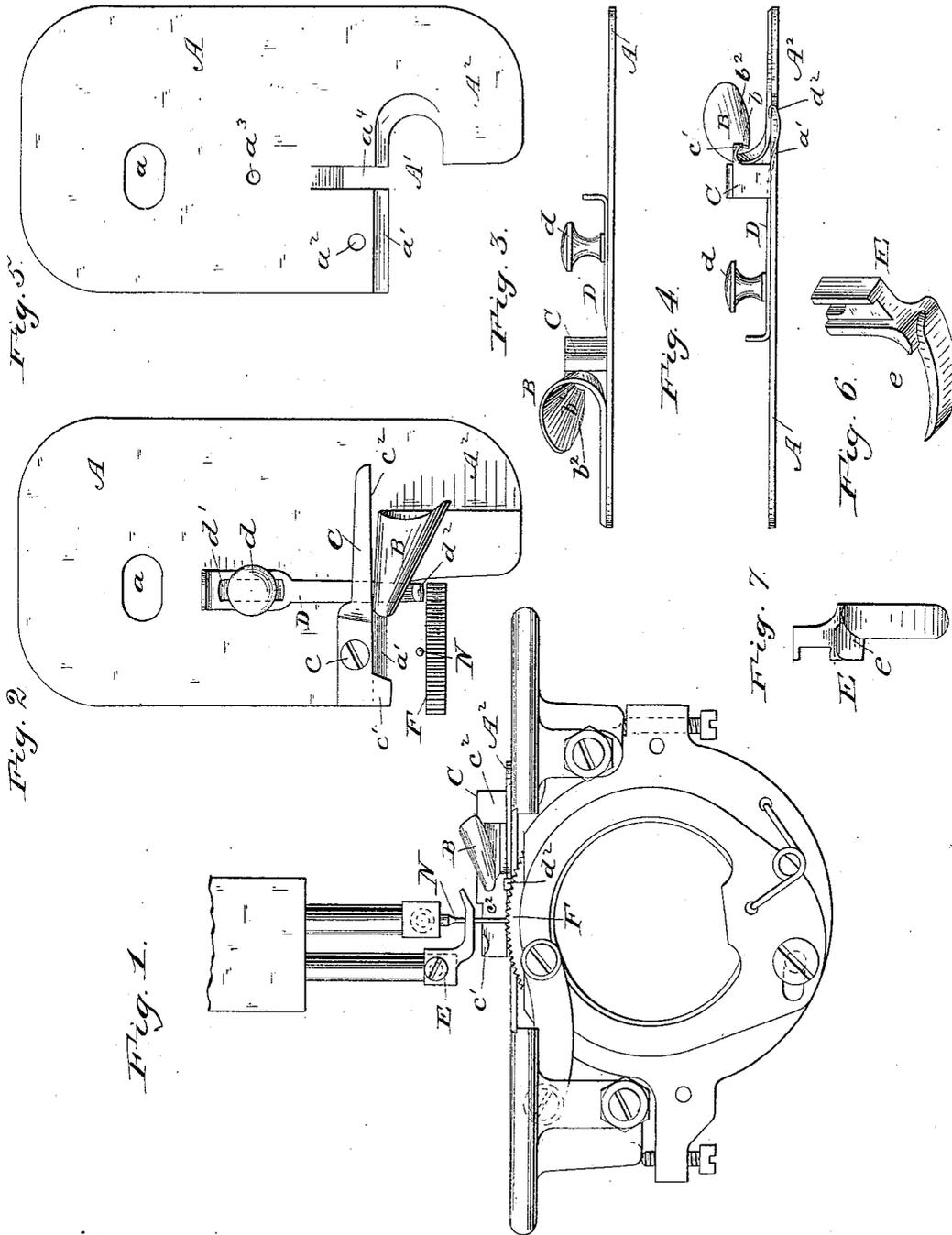
(No Model.)

G. W. PARKINSON.

HAT BINDING ATTACHMENT FOR SEWING MACHINES.

No. 298,399.

Patented May 13, 1884.



Witnesses:
H. A. Low
Le. S. Hyen

Inventor:
G. W. Parkinson
 by *Henry Low*, atty

UNITED STATES PATENT OFFICE.

GEORGE W. PARKINSON, OF NEWBURG, NEW YORK.

HAT-BINDING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 298,399, dated May 13, 1884.

Application filed February 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PARKINSON, a citizen of the United States, residing at Newburg, in the county of Orange and State of New York, have invented certain new and useful Improvements in Hat-Binding Attachments for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is the production of a binding attachment to sewing-machines of such construction that a stiff hat-brim having a curled edge and the binding for the same may be properly guided to the stitch-forming mechanism, and held in such convenient positions relative thereto, while the binding is being sewed to the brim, that the curled edge will not interfere with the operation of the needle, and the binding, after being stitched, will not be drawn out of place by the operation of the feed.

In the drawings, Figure 1 is a front end elevation of an improved Singer sewing-machine, showing my binder in its operative position relative thereto. Fig. 2 is a plan view of the binder, showing also, approximately, the relative positions of the needle and feed when the device is in its operative position on the machine. Fig. 3 is a front view of the binder, and Fig. 4 a rear view of the same. Fig. 5 is a plan view of the base-plate of the binder; and Figs. 6 and 7 are detail views of a presser-foot adapted to co-operate with my binder, Fig. 7 being a bottom plan view.

A is the base-plate of the binder, having a hole, *a*, for the passage of a thumb-screw, by which it is attached to the bed-plate of the sewing-machine in the ordinary manner. Said base-plate A is cut away, as clearly shown in Fig. 5, to form a recess, A', around the side and front end of which extends a beveled edge, *a'*. The plate A is also provided with tapped holes *a²* and *a³* and a slot, *a⁴*, the purpose of which will presently appear.

To the forwardly-projecting end A² of the plate A is secured a scroll, B, which is so formed as to leave at its apex or exit end a passage-way, *b*, which is approximately vertical, said passage-way *b* communicating with an approximately-horizontal passage-way, *b'*, formed by the downwardly-turned lip *b²* of the scroll.

C is a guide, fastened to the plate A by a

screw, *c*, entering the tapped hole *a²*. This guide is arranged nearly parallel with the scroll B, and is provided at its rear end with a downwardly-turned hook, *c'*, which is arranged in line with the apex of the scroll B, or approximately so, so that the edge of the hat-brim, passing through the latter, will be engaged by the said hook. As the guide C is secured to the plate A by the single screw *c*, it is obvious that when said screw is slightly loosened said guide may be adjusted thereon as a pivot to meet the requirements of different kinds of work, when desired. While the hook *c'* serves as a positive guide for the passing work, the vertical face *c²* of the guide C affords a guiding-surface or rest, against which the work may be pressed to hold it in proper position.

D is a guide for the lower edge of the binding, said guide being secured to the plate A by a thumb-screw, *d*, which passes into the tapped hole *a³* in the base-plate through a slot, *d'*, in the guide, thereby permitting the adjustment of the latter for bindings of different widths. The guide D is provided at its outer end with a guiding-hook, *d²*, which receives the edge of the binding. The outer end of the guide D is curved downward into the slot *a⁴* of the plate A, thus allowing said end to rest close against the bed-plate of the machine, the guide C being slightly recessed on its under side to make room for the guide D.

E is a presser-foot specially adapted for use with my binder. This foot is recessed on its inner side, leaving a projection, *e*, which will be back of the needle, the bottom of said projection being cut away, as clearly shown in the detail views, Figs. 6 and 7, so as to leave sufficient space for the passage of the binding which has been sewed to the hat-brim. Thus the body of the foot will rest firmly on the hat-brim, pressing the same against the feed, while the binding, passing beneath the projection *e*, will not be subjected to sufficient friction to draw the same out of place. The recess beneath the projection *e* of the presser-foot is curved slightly outward (or toward the left of the operator) to facilitate the turning of the work in binding the curved or circular brim of the hat.

F indicates the feed, and N the needle, of the sewing-machine.

The operation of my device is as follows:

The plate A being secured to the bed-plate of the sewing-machine, the guide D will be adjusted so that its guiding-hook d^2 will be in a line, or nearly so, with the inner edge of a feed. The binding will then be arranged on the outside of the scroll B, with its lower edge within the guiding-hook d^2 . The hat having been placed in position against the guide C, with its curled edge in the hook c' and inside of the scroll B, the presser-foot will be lowered onto the work, holding the same firmly against the feed and bed-plate of the machine. The machine now being started, the needle will pierce the binding and hat-brim, and the needle-thread having been properly interlocked or interlooped the binding will be securely sewed to the brim. As the work is moved forward by the feed, the stiff curled edge of the brim will be gradually and easily uncurled by the scroll B, into which it passes, thus avoiding any danger of breaking the said curled edge. It will be observed, however, that with my device, constructed as hereinbefore described, the brim will not be entirely uncurled, as the approximately vertical passage-way b of the scroll and the hook c' of the guide C will properly hold and guide the outer edge of the brim in a vertical position, while that part of the brim through which the needle passes, being some little distance from the edge, will be horizontal when pierced by the needle. When the work has passed beyond the presser-foot and the hook c' , the brim will gradually return to its original shape. The beveled edge a' of the recess A permits the work, in its passage beneath the needle and presser-foot, to lie down closely on the bed-plate of the machine, so that the work will be held firmly and steadily, thus avoiding unnecessary friction, while the gradual and easy and still only partial uncurling of the stiff brim will obviate any necessity of such pressure of the presser-foot or force in uncurling as will be liable to mark or break the brim.

I have illustrated my invention in connection with a sewing-machine having a wheel-feed, which is considered preferable for the kind of work to which my device is to be applied, as by such a feed the work is at all times held firmly and moved positively. It will be understood, however, that my invention may be used in connection with machines having other forms of feeds, if desired.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a hat-binding attachment for sewing-machines, a base-plate having at one end a recess, the edge of said plate bordering on said recess being beveled, as described, combined with a scroll for uncurling and guiding the edge of the hat-brim, and for guiding the binding, substantially as set forth.

2. The base-plate, the scroll attached thereto, and having a downwardly-turned lip for uncurling the hat-brim, and at its apex a passage-way

that is approximately vertical, combined with a guide arranged approximately parallel with said scroll and adapted to co-operate with the latter in guiding the partially-uncurled edge of the hat-brim, substantially as set forth.

3. The base-plate having at one end a beveled-edged recess, combined with an uncurling and guiding scroll, arranged partially over the beveled edge of said recess, a guide for the lower edge of the binding, and a guide adapted to co-operate with said scroll in guiding the partially-uncurled edge of the hat-brim, substantially as described.

4. The base-plate and the scroll secured thereto, and having a downwardly-turned lip for uncurling the hat-brim, in combination with a guide having a downwardly-turned hook arranged approximately in line with the apex of said scroll, substantially as described.

5. The base-plate, the scroll secured thereto, and having a downwardly-turned lip for uncurling the hat-brim, and the guide for the lower edge of the binding combined with a guide adapted to co-operate with said scroll in guiding the partially-uncurled edge of the hat-brim, substantially as described.

6. The combination of the base-plate A, having the recess A' , and the beveled edge a' , partially surrounding said recess, the scroll B, secured to said base-plate, the adjustable guide C, having the downwardly-turned hook c' , and the adjustable guide D, for the lower edge of the binding, substantially as set forth.

7. The combination of the base-plate A, having the recess A' , and the beveled edge a' , partially surrounding said recess, the scroll B, secured to said base-plate, the guide C, having the hook c' , the screw e , for pivotally and adjustably attaching said guide to said base-plate, the guide D, having the slot d' and guiding-hook d^2 , and the thumb-screw d , substantially as described.

8. The presser-foot E, recessed on its inner side, leaving the projection e cut away on its bottom, as shown, combined with means for uncurling and guiding the hat-brim and the binding, substantially as described.

9. The presser-foot E, recessed on its inner side and having the projection e , which is cut away on its bottom, said cut-away portion or recess being curved slightly outward to facilitate the turning of the work, combined with means for guiding the hat-brim and binding, substantially as described.

10. The presser-foot E, recessed on its inner side, leaving the projection e , which is cut away on its bottom, as shown, combined with the base-plate A, the scroll B, and the guides C and D, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. PARKINSON.

Witnesses:

ALBERT H. STRONG,
GRANT B. TAYLOR.